

Matthias Schreck

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8045521/matthias-schreck-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178
papers

4,778
citations

34
h-index

61
g-index

184
ext. papers

5,194
ext. citations

3.8
avg, IF

5.12
L-index

#	Paper	IF	Citations
178	Single photon emission from silicon-vacancy colour centres in chemical vapour deposition nano-diamonds on iridium. <i>New Journal of Physics</i> , 2011 , 13, 025012	2.9	297
177	Boron nitride nanomesh: functionality from a corrugated monolayer. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 5115-9	16.4	196
176	One- and two-dimensional photonic crystal microcavities in single crystal diamond. <i>Nature Nanotechnology</i> , 2011 , 7, 69-74	28.7	192
175	Optical and structural analysis of ZnCdO layers grown by metalorganic vapor-phase epitaxy. <i>Applied Physics Letters</i> , 2003 , 83, 3290-3292	3.4	165
174	Optical signatures of silicon-vacancy spins in diamond. <i>Nature Communications</i> , 2014 , 5, 3328	17.4	121
173	Epitaxy of cubic boron nitride on (001)-oriented diamond. <i>Nature Materials</i> , 2003 , 2, 312-5	27	118
172	Diamond/Ir/SrTiO ₃ : A material combination for improved heteroepitaxial diamond films. <i>Applied Physics Letters</i> , 1999 , 74, 650-652	3.4	107
171	Deterministic coupling of a single silicon-vacancy color center to a photonic crystal cavity in diamond. <i>Nano Letters</i> , 2014 , 14, 5281-7	11.5	106
170	Low-temperature investigations of single silicon vacancy colour centres in diamond. <i>New Journal of Physics</i> , 2013 , 15, 043005	2.9	106
169	Supramolecular assemblies formed on an epitaxial graphene superstructure. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1794-9	16.4	104
168	Reentrant superconductivity in Nb/Cu _{1-x} Ni _x bilayers. <i>Physical Review Letters</i> , 2006 , 97, 057004	7.4	101
167	Diamond nucleation on iridium buffer layers and subsequent textured growth: A route for the realization of single-crystal diamond films. <i>Applied Physics Letters</i> , 2001 , 78, 192-194	3.4	98
166	Ion bombardment induced buried lateral growth: the key mechanism for the synthesis of single crystal diamond wafers. <i>Scientific Reports</i> , 2017 , 7, 44462	4.9	95
165	A route to diamond wafers by epitaxial deposition on silicon via iridium/yttria-stabilized zirconia buffer layers. <i>Applied Physics Letters</i> , 2004 , 84, 4541-4543	3.4	94
164	Diamond field effect transistors—concepts and challenges. <i>Diamond and Related Materials</i> , 2003 , 12, 391-398	3.5	87
163	Large-area high-quality single crystal diamond. <i>MRS Bulletin</i> , 2014 , 39, 504-510	3.2	75
162	Fluorescence and polarization spectroscopy of single silicon vacancy centers in heteroepitaxial nanodiamonds on iridium. <i>Physical Review B</i> , 2011 , 84,	3.3	62

161	High growth rate homoepitaxial diamond deposition on off-axis substrates. <i>Diamond and Related Materials</i> , 2005 , 14, 266-271	3.5	58
160	Oscillations of the critical temperature in superconducting Nb/Ni bilayers. <i>Annalen Der Physik</i> , 2003 , 12, 37-50	2.6	58
159	Raman study of titanium oxide layers produced with plasma immersion ion implantation. <i>Surface and Coatings Technology</i> , 2000 , 125, 84-88	4.4	52
158	Epitaxial films of metals from the platinum group (Ir, Rh, Pt and Ru) on YSZ-buffered Si(1 1 1). <i>Journal of Crystal Growth</i> , 2009 , 311, 3731-3736	1.6	51
157	Nucleation and Growth of Heteroepitaxial Diamond Films on Silicon. <i>Physica Status Solidi A</i> , 1996 , 154, 197-217		51
156	Structural characterization of diamond films grown epitaxially on silicon. <i>Diamond and Related Materials</i> , 1994 , 3, 510-514	3.5	51
155	Preparation of 4-inch Ir/YSZ/Si(001) substrates for the large-area deposition of single-crystal diamond. <i>Diamond and Related Materials</i> , 2008 , 17, 1035-1038	3.5	48
154	Mosaicity reduction during growth of heteroepitaxial diamond films on iridium buffer layers: Experimental results and numerical simulations. <i>Journal of Applied Physics</i> , 2002 , 91, 676-685	2.5	48
153	Efficiency of dislocation density reduction during heteroepitaxial growth of diamond for detector applications. <i>Applied Physics Letters</i> , 2013 , 103, 151905	3.4	45
152	High quality single atomic layer deposition of hexagonal boron nitride on single crystalline Rh(111) four-inch wafers. <i>Review of Scientific Instruments</i> , 2014 , 85, 035101	1.7	45
151	Diamond detectors for hadron physics research. <i>Diamond and Related Materials</i> , 2010 , 19, 358-367	3.5	45
150	How does graphene grow? Easy access to well-ordered graphene films. <i>Small</i> , 2009 , 5, 2291-6	11	39
149	Growth rate enhancement by nitrogen in diamond chemical vapor deposition—catalytic effect. <i>Applied Physics Letters</i> , 2009 , 94, 224101	3.4	39
148	Limiting processes for diamond epitaxial alignment on silicon. <i>Physical Review B</i> , 1998 , 57, 15454-15464	3.3	39
147	Reentrant superconductivity in superconductor/ferromagnetic-alloy bilayers. <i>Physical Review B</i> , 2010 , 82,	3.3	38
146	Domain formation in diamond nucleation on iridium. <i>Diamond and Related Materials</i> , 2003 , 12, 262-267	3.5	36
145	Growth of epitaxial diamond on silicon via iridium/SrTiO ₃ buffer layers. <i>Diamond and Related Materials</i> , 2005 , 14, 314-317	3.5	35
144	Centimeter-Sized Single-Orientation Monolayer Hexagonal Boron Nitride With or Without Nanovoids. <i>Nano Letters</i> , 2018 , 18, 1205-1212	11.5	34

143	Epitaxial growth of hexagonal boron nitride monolayers by a three-step boration-oxidation-nitration process. <i>Physical Review B</i> , 2010 , 82,	3.3	33
142	Epitaxial Ir layers on SrTiO ₃ as substrates for diamond nucleation: deposition of the films and modification in the CVD environment. <i>Diamond and Related Materials</i> , 2000 , 9, 256-261	3.5	32
141	First stages of diamond nucleation on iridium buffer layers. <i>Diamond and Related Materials</i> , 2001 , 10, 1617-1621	3.5	32
140	Optical characterization of the cathode plasma sheath during the biasing step for diamond nucleation on silicon. <i>Diamond and Related Materials</i> , 1995 , 4, 553-558	3.5	32
139	Epitaxial growth of thin films of perylenetetracar?ylic dianhydride and coronene on NaCl(001). <i>Thin Solid Films</i> , 1989 , 175, 89-93	2.2	32
138	Tuned NV emission by in-plane Al-Schottky junctions on hydrogen terminated diamond. <i>Scientific Reports</i> , 2014 , 4, 3634	4.9	31
137	Epitaxial growth of graphene on transition metal surfaces: chemical vapor deposition versus liquid phase deposition. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 314204	1.8	30
136	Transmission electron microscopy study of the very early stages of diamond growth on iridium. <i>Diamond and Related Materials</i> , 2008 , 17, 1045-1050	3.5	29
135	Reduction of mosaic spread using iridium interlayers: A route to improved oxide heteroepitaxy on silicon. <i>Applied Physics Letters</i> , 2007 , 91, 061501	3.4	29
134	Diamond-based electronics for RF applications. <i>Diamond and Related Materials</i> , 2004 , 13, 233-240	3.5	29
133	Scalable synthesis of graphene on single crystal Ir(111) films. <i>Surface Science</i> , 2012 , 606, 1475-1480	1.8	28
132	Electronic transitions of single silicon vacancy centers in the near-infrared spectral region. <i>Physical Review B</i> , 2012 , 85,	3.3	28
131	Comparison of MWPCVD diamond growth at low and high process gas pressures. <i>Diamond and Related Materials</i> , 2006 , 15, 542-547	3.5	28
130	Dispersion of surface acoustic waves in polycrystalline diamond plates. <i>Diamond and Related Materials</i> , 2001 , 10, 686-692	3.5	28
129	The influence of the growth process on the film texture of epitaxially nucleated diamond on silicon (001). <i>Diamond and Related Materials</i> , 1995 , 4, 410-415	3.5	28
128	X-ray imaging of polycrystalline materials). <i>Review of Scientific Instruments</i> , 1995 , 66, 3560-3562	1.7	26
127	Influence of the nucleation process on the azimuthal misorientation of heteroepitaxial diamond films on Si(001). <i>Journal of Applied Physics</i> , 1997 , 81, 3096-3102	2.5	25
126	Limitations of the process window for the bias enhanced nucleation of heteroepitaxial diamond films on silicon in the time domain. <i>Journal of Applied Physics</i> , 1997 , 81, 3092-3095	2.5	24

125	Homoepitaxial diamond layers on off-axis Ib HPHT substrates: Growth of thick films and characterisation by high-resolution X-ray diffraction. <i>Diamond and Related Materials</i> , 2006 , 15, 472-478	3.5	24
124	Stress distribution in thin heteroepitaxial diamond films on Ir/SrTiO ₃ studied by x-ray diffraction, Raman spectroscopy, and finite element simulations. <i>Journal of Applied Physics</i> , 2000 , 88, 2456-2466	2.5	24
123	Structural defects in homoepitaxial diamond layers grown on off-axis Ib HPHT substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3056-3062	1.6	23
122	Field effect transistor fabricated on hydrogen-terminated diamond grown on SrTiO ₃ substrate and iridium buffer layer. <i>Diamond and Related Materials</i> , 2003 , 12, 403-407	3.5	22
121	Deposition of heteroepitaxial diamond films on 2 in silicon substrates. <i>Diamond and Related Materials</i> , 1996 , 5, 251-255	3.5	22
120	Toward wafer-scale diamond nano- and quantum technologies. <i>APL Materials</i> , 2019 , 7, 011108	5.7	21
119	Epitaxial growth of graphene on Ir(111) by liquid precursor deposition. <i>Physical Review B</i> , 2011 , 84,	3.3	21
118	Yttria-stabilized zirconia films of different composition as buffer layers for the deposition of epitaxial diamond/Ir layers on Si(001). <i>Diamond and Related Materials</i> , 2006 , 15, 479-485	3.5	21
117	Transmission electron microscopy study of the diamond nucleation layer on iridium. <i>Diamond and Related Materials</i> , 2006 , 15, 460-464	3.5	21
116	Growth and properties of CVD diamond films grown under H ₂ S addition. <i>Diamond and Related Materials</i> , 2003 , 12, 318-323	3.5	21
115	Lithium addition during CVD diamond growth: influence on the optical emission of the plasma and properties of the films. <i>Diamond and Related Materials</i> , 2000 , 9, 1046-1050	3.5	21
114	Correlation between breakdown voltage and structural properties of polycrystalline and heteroepitaxial CVD diamond films. <i>Diamond and Related Materials</i> , 1994 , 3, 951-956	3.5	21
113	Propagation and annihilation of threading dislocations during off-axis growth of heteroepitaxial diamond films. <i>Diamond and Related Materials</i> , 2016 , 65, 53-58	3.5	20
112	TEM investigations on the heteroepitaxial nucleation of CVD diamond on (001) silicon substrates. <i>Diamond and Related Materials</i> , 1997 , 6, 752-757	3.5	20
111	Growth of twin-free heteroepitaxial diamond on Ir/YSZ/Si(111). <i>Journal of Applied Physics</i> , 2008 , 104, 123531	2.5	20
110	Boron Nitride Nanomesh: Functionality from a Corrugated Monolayer. <i>Angewandte Chemie</i> , 2007 , 119, 5207-5211	3.6	20
109	Analysis of the total carbon deposition during the bias enhanced nucleation of diamond on Ir/SrTiO ₃ (001) using ¹³ C-methane. <i>Diamond and Related Materials</i> , 2002 , 11, 493-498	3.5	20
108	Modification of diamond film growth by a negative bias voltage in microwave plasma chemical vapor deposition. <i>Diamond and Related Materials</i> , 1998 , 7, 293-298	3.5	20

107	Multiple role of dislocations in the heteroepitaxial growth of diamond: A brief review. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 2028-2035	1.6	19
106	Comparative electron diffraction study of the diamond nucleation layer on Ir(001). <i>Diamond and Related Materials</i> , 2008 , 17, 1029-1034	3.5	19
105	Interaction of metals with cadmium arachidate Langmuir-Blodgett films studied by X-ray photoelectron spectroscopy. <i>Thin Solid Films</i> , 1989 , 175, 95-101	2.2	19
104	Growth mechanism for epitaxial cubic boron nitride films on diamond substrates by ion beam assisted deposition. <i>Diamond and Related Materials</i> , 2004 , 13, 1144-1148	3.5	18
103	Orientation dependent sputter yield of aluminium. <i>Surface and Coatings Technology</i> , 2002 , 151-152, 72-74	1.4	18
102	HREELS-studies of selectively deuterated cadmium-stearate Langmuir-Blodgett films. <i>Surface Science</i> , 1990 , 237, L405-L410	1.8	18
101	Magnetic Nano-skyrmion Lattice Observed in a Si-Wafer-Based Multilayer System. <i>ACS Nano</i> , 2015 , 9, 5908-12	16.7	17
100	Growth, stress, and defects of heteroepitaxial diamond on Ir/YSZ/Si(111). <i>Journal of Applied Physics</i> , 2018 , 123, 225302	2.5	17
99	STM, SECPM, AFM and Electrochemistry on Single Crystalline Surfaces. <i>Materials</i> , 2010 , 3, 4196-4213	3.5	17
98	Growth sector dependence and mechanism of stress formation in epitaxial diamond growth. <i>Applied Physics Letters</i> , 2012 , 100, 041906	3.4	17
97	Surface modifications and first stages of heteroepitaxial diamond growth on iridium. <i>Diamond and Related Materials</i> , 2004 , 13, 335-341	3.5	17
96	In situ characterisation of CVD diamond growth under H ₂ S addition by optical emission spectroscopy, mass spectroscopy and laser reflection interferometry. <i>Diamond and Related Materials</i> , 2002 , 11, 296-300	3.5	17
95	Direct imaging of boron segregation at dislocations in B:diamond heteroepitaxial films. <i>Nanoscale</i> , 2016 , 8, 2212-8	7.7	16
94	Epitaxial rhenium buffer layers on Al ₂ O ₃ (0001): a substrate for the deposition of (111)-oriented heteroepitaxial diamond films. <i>Physica Status Solidi A</i> , 2003 , 199, 19-26		16
93	Photoconductivity Study of Li Doped Homoepitaxially Grown CVD Diamond. <i>Physica Status Solidi A</i> , 2000 , 181, 45-50		16
92	Production yield of rare-earth ions implanted into an optical crystal. <i>Applied Physics Letters</i> , 2016 , 108, 053108	3.4	16
91	Site selective growth of heteroepitaxial diamond nanoislands containing single SiV centers. <i>Applied Physics Letters</i> , 2016 , 108, 063111	3.4	16
90	Combined AFM/SEM study of the diamond nucleation layer on Ir(001). <i>Diamond and Related Materials</i> , 2007 , 16, 665-670	3.5	15

89	Modifying chemical vapor deposited diamond films for field emission displays. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 693		15
88	Kinetics of the Thermal Oxidation of Ir(100) toward IrO Studied by Ambient-Pressure X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3601-3607	6.4	15
87	Correlation between surface morphology and defect structure of heteroepitaxial diamond grown on off-axis substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2257-2263	1.6	14
86	In situ boron doping during heteroepitaxial growth of diamond on Ir/YSZ/Si. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1643-1650	1.6	14
85	Multimode photoacoustic method for the evaluation of mechanical properties of heteroepitaxial diamond layers. <i>Journal of Applied Physics</i> , 2010 , 108, 083524	2.5	14
84	Epitaxial lateral overgrowth (ELO) of homoepitaxial diamond through an iridium mesh. <i>Diamond and Related Materials</i> , 2007 , 16, 711-717	3.5	14
83	Healing of graphene on single crystalline Ni(111) films. <i>Applied Physics Letters</i> , 2014 , 105, 191612	3.4	13
82	Influence of structural and morphological properties on the intrinsic field emission of CVD diamond films. <i>Diamond and Related Materials</i> , 1998 , 7, 666-670	3.5	13
81	Detachment of CVD-grown graphene from single crystalline Ni films by a pure gas phase reaction. <i>Surface Science</i> , 2016 , 653, 143-152	1.8	13
80	Progress in detector properties of heteroepitaxial diamond grown by chemical vapor deposition on Ir/YSZ/Si(001) wafers. <i>Diamond and Related Materials</i> , 2019 , 97, 107420	3.5	12
79	Incorporation of nitrogen into carbon films produced by PECVD under bias voltage. <i>Diamond and Related Materials</i> , 1998 , 7, 899-902	3.5	12
78	High-quality graphene on single crystal Ir(1 1 1) films on Si(1 1 1) wafers: Synthesis and multi-spectroscopic characterization. <i>Carbon</i> , 2015 , 81, 167-173	10.4	11
77	Field electron emission enhancement in lithium implanted and annealed nitrogen-incorporated nanocrystalline diamond films. <i>Applied Physics Letters</i> , 2017 , 110, 261602	3.4	11
76	Graphene/Silicon Layered Structures on Single-Crystalline Ir(111) Thin Films. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400543	4.6	11
75	Quasi-one-dimensional Fulde-Ferrell-Larkin-Ovchinnikov-like state in Nb/Cu _{0.41} Ni _{0.59} bilayers. <i>JETP Letters</i> , 2009 , 90, 139-142	1.2	11
74	Diamond nucleation on iridium: Local variations of structure and density within the BEN layer. <i>Diamond and Related Materials</i> , 2009 , 18, 107-112	3.5	11
73	Supramolecular Assemblies Formed on an Epitaxial Graphene Superstructure. <i>Angewandte Chemie</i> , 2010 , 122, 1838-1843	3.6	11
72	Structural Properties of the Diamond Nucleation Layer on Iridium Analyzed by Laterally Resolved X-Ray Absorption Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, L984-L986	1.4	11

71	Flat epitaxial diamond/Ir(001) interface visualized by high resolution transmission electron microscopy. <i>Surface Science</i> , 2002 , 513, 525-529	1.8	11
70	Dislocation-induced electronic states and point-defect atmospheres evidenced by electron energy loss imaging. <i>New Journal of Physics</i> , 2004 , 6, 184-184	2.9	11
69	Field emission mechanism from undoped chemical vapor deposition diamond films. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000 , 18, 1031		11
68	Charge carrier trapping by dislocations in single crystal diamond. <i>Journal of Applied Physics</i> , 2020 , 127, 125102	2.5	10
67	Localization of Narrowband Single Photon Emitters in Nanodiamonds. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7590-4	9.5	10
66	Iridium on Biaxially Textured Oxide Templates: A Concept to Grow Single Crystals on Arbitrary Substrates. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 8925-8927	1.4	10
65	TEM analysis of nanometer-size surface structures formed by bias enhanced nucleation of diamond on iridium. <i>Diamond and Related Materials</i> , 2003 , 12, 350-355	3.5	10
64	Thermoluminescence characterization of a MWCVD diamond film exposed to γ rays and UV radiation. <i>Physica Status Solidi A</i> , 2005 , 202, 2206-2211		10
63	Characterization of the near-interface region of chemical vapor deposited diamond films on silicon by backscatter Kikuchi diffraction. <i>Applied Physics Letters</i> , 1994 , 65, 1781-1783	3.4	10
62	Interaction of slow electrons with organic films: theoretical and experimental HREELS studies on selectively deuterated molecules. <i>Surface Science</i> , 1992 , 262, 128-140	1.8	10
61	Propagation of threading dislocations in heteroepitaxial diamond films with (111) orientation and their role in the formation of intrinsic stress. <i>Journal of Applied Physics</i> , 2017 , 121, 225301	2.5	9
60	Growth of zinc oxide nanopillars on an iridium/yttria-stabilized zirconia/silicon substrate. <i>Applied Physics Letters</i> , 2007 , 90, 233115	3.4	9
59	Bias assisted growth on diamond single crystals: the defect formation due to ion bombardment studied by ion channelling, electron backscatter diffraction, and micro-Raman spectroscopy. <i>Diamond and Related Materials</i> , 2002 , 11, 487-492	3.5	9
58	Pulse-resolved intensity measurements at a hard X-ray FEL using semi-transparent diamond detectors. <i>Journal of Synchrotron Radiation</i> , 2018 , 25, 177-188	2.4	9
57	Synthesis and characterization of peapods and DWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2345-2348	1.3	8
56	Diamond mosaic crystals for neutron instrumentation: First experimental results. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 634, S28-S36	1.2	8
55	Extended defect related energy loss in CVD diamond revealed by spectrum imaging in a dedicated STEM. <i>Ultramicroscopy</i> , 2005 , 104, 46-56	3.1	8
54	Damage buildup and removal in Ca-ion-implanted GaN. <i>Applied Physics A: Materials Science and Processing</i> , 2000 , 70, 53-57	2.6	8

53	Comparative optical reflection and mass spectrometry analysis of thermodesorption of Langmuir-Blodgett films. <i>Thin Solid Films</i> , 1992 , 213, 136-142	2.2	8
52	Structural analysis of diamond mosaic crystals for neutron monochromators using synchrotron radiation. <i>Diamond and Related Materials</i> , 2013 , 37, 41-49	3.5	7
51	Interaction between surface structures and threading dislocations during epitaxial diamond growth. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 2480-2486	1.6	7
50	Yttria-stabilized zirconia buffered silicon to optimize in-plane electrical conductivity of [Ca ₂ CoO ₃] _{0.62} [CoO ₂] thin films. <i>Applied Physics Letters</i> , 2014 , 104, 183104	3.4	7
49	Exchange bias in reduced dimensions: Cobalt nanocluster arrays under the influence of nanometer thin MnPt capping layers. <i>Journal of Applied Physics</i> , 2013 , 113, 123903	2.5	7
48	Epitaxial growth of europium monoxide on diamond. <i>Applied Physics Letters</i> , 2013 , 103, 222402	3.4	7
47	Comparison of diamond bias enhanced nucleation on Ir and 3C-SiC: A high resolution electron energy loss spectroscopy study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1972-1977	1.6	7
46	Afterglow and thermally stimulated luminescence induced by UV radiation in CVD diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 3047-3052	1.6	7
45	Crystal tilting of diamond heteroepitaxially grown on vicinal IrBrTiO ₃ (001). <i>Journal of Applied Physics</i> , 2004 , 96, 1413-1417	2.5	7
44	Control of Lithium-t-Butoxide Addition during Chemical Vapour Deposition of Li-Doped Diamond Films by Optical Emission Spectroscopy. <i>Physica Status Solidi A</i> , 1999 , 174, 65-72		7
43	Oxygen at the interface of CVD diamond films on silicon. <i>Diamond and Related Materials</i> , 1999 , 8, 1142-1147	3.47	7
42	Texture analysis of chemical vapor deposited diamond films on silicon by the component method. <i>Journal of Applied Physics</i> , 1995 , 77, 4765-4770	2.5	7
41	Indications of non-monotonic texture evolution from a two-dimensional simulation study. <i>Diamond and Related Materials</i> , 1995 , 4, 416-418	3.5	7
40	Study of the initial growth phase of chemical vapor deposited diamond on silicon(001) by synchrotron radiation. <i>Journal of Applied Physics</i> , 1996 , 79, 1907-1910	2.5	7
39	Thermodesorption of Langmuir-Blodgett films studied by mass spectrometry. <i>Langmuir</i> , 1991 , 7, 2287-2292	2.92	7
38	Microstructural Effect on the Enhancement of Field Electron Emission Properties of Nanocrystalline Diamond Films by Li-Ion Implantation and Annealing Processes. <i>ACS Omega</i> , 2018 , 3, 9956-9965	3.9	6
37	Heteroepitaxial Growth 2009 , 125-161		6
36	The nucleation centers formed during bias-enhanced nucleation of diamond on iridium: structure and stability. <i>Diamond and Related Materials</i> , 2005 , 14, 328-334	3.5	6

35	Effect of oxygen on the bias-enhanced nucleation of diamond on silicon. <i>Diamond and Related Materials</i> , 1999 , 8, 160-165	3.5	6
34	Characterization of CVD Heavily B-Doped Diamond Thin Films for Multi Electrode Array Biosensors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017 , 214, 1700223	1.6	5
33	Fermi surface map of large-scale single-orientation graphene on SiO. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 475001	1.8	5
32	Graphene from fingerprints: exhausting the performance of liquid precursor deposition. <i>Langmuir</i> , 2014 , 30, 6114-9	4	5
31	Electron beam-induced current imaging of chemical vapor-deposited diamond films. <i>Diamond and Related Materials</i> , 1997 , 6, 95-98	3.5	5
30	Growth and defects of diamond facets under negative biasing conditions in a microwave plasma CVD process. <i>Diamond and Related Materials</i> , 1997 , 6, 1010-1014	3.5	5
29	First diamond FET RF power measurement on diamond quasi-substrate		5
28	Formation of huge in-plane anisotropy of intrinsic stress by off-axis growth of diamond. <i>Applied Physics Letters</i> , 2016 , 109, 141907	3.4	5
27	Controlled thermodynamics for tunable electron doping of graphene on Ir(111). <i>Physical Review B</i> , 2016 , 94,	3.3	4
26	Mutual interaction of N, B, and O during heteroepitaxial diamond growth: Triggering the nitrogen induced growth acceleration. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2290-2295	1.6	4
25	Single Crystalline Metal Films as Substrates for Graphene Growth. <i>Annalen Der Physik</i> , 2017 , 529, 17000236		4
24	Single Crystal Diamond Growth on Iridium 2014 , 269-304		4
23	Thermal diffusivity of heteroepitaxial diamond films: Experimental setup and measurements. <i>Diamond and Related Materials</i> , 2010 , 19, 787-791	3.5	4
22	Double re-entrance of superconductivity in superconductor/ferromagnet bilayers. <i>Journal of Physics: Conference Series</i> , 2009 , 150, 052242	0.3	4
21	All optical read-out radiation dosimeter using CVD synthetic diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3173-3178	1.6	4
20	Preparation and spectroscopic characterization of a thin polymer film in ultra high vacuum: 2,5-distyrylpyrazine. <i>Journal of Chemical Physics</i> , 1991 , 94, 3235-3241	3.9	4
19	Lift-off of single crystal diamond by epitaxial lateral overgrowth using SiO ₂ masks. <i>Diamond and Related Materials</i> , 2020 , 101, 107606	3.5	4
18	Increasing the wear resistance by interstitial alloying with boron via chemical vapor deposition. <i>Langmuir</i> , 2013 , 29, 4543-50	4	3

17	Performance of CVD diamond as an optically and thermally stimulated luminescence dosimeter. <i>Radiation Protection Dosimetry</i> , 2006 , 119, 226-9	0.9	3
16	Interaction of small diamond islands on iridium: A finite element simulation study. <i>Diamond and Related Materials</i> , 2007 , 16, 705-710	3.5	3
15	Afterglow, TL and IRSL in beta-irradiated HPHT type Ib synthetic diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 3167-3172	1.6	3
14	Joint density of states at extended defects in CVD diamond, observed via highly spatially resolved electron energy loss spectroscopy. <i>Physica Status Solidi A</i> , 2005 , 202, 2188-2193		3
13	Extinction and Recovery of Superconductivity by Interference in Superconductor/Ferromagnet Bilayers. <i>Nanoscience and Technology</i> , 2009 , 3-11	0.6	3
12	Detection of x rays by a surface acoustic delay line in contact with a diamond crystal. <i>Applied Physics Letters</i> , 2021 , 118, 133501	3.4	3
11	The first prototype diamond monochromator at the Institut Laue-Langevin. <i>Journal of Physics: Conference Series</i> , 2014 , 528, 012001	0.3	2
10	ZnO Nanostructures: Optical Resonators and Lasing. <i>Advances in Solid State Physics</i> , 2009 , 39-56		2
9	High Field Electrical Conductivity and Breakdown in Heteroepitaxial Diamond Films. <i>Materials Research Society Symposia Proceedings</i> , 1995 , 416, 337		1
8	Fe ²⁺ complex emission in ZnO. <i>Journal of Applied Physics</i> , 2021 , 129, 085701	2.5	1
7	Photoconductive gain in single crystal diamond detectors. <i>Journal of Applied Physics</i> , 2021 , 129, 124502	2.5	1
6	Epitaxial Growth of Graphene on Single-Crystal Cu(111) Wafers 2018 , 97-106		1
5	Study of the Growth of Thin Epitaxial CVD Diamond Films on Silicon. <i>Materials Science Forum</i> , 1996 , 228-231, 445-450	0.4	0
4	Polarization-sensitive reconstruction of transient local THz fields at dielectric interfaces. <i>Optica</i> , 2019 , 6, 1431	8.6	0
3	Bias Enhanced Nucleation and Growth of Diamond Films on Titanium Substrates. <i>Materials Science Forum</i> , 1998 , 287-288, 315-318	0.4	
2	AFM study on the non-monotonic texture evolution of heteroepitaxially nucleated diamond films. <i>Diamond and Related Materials</i> , 1996 , 5, 266-271	3.5	
1	Growth of Single Crystal Diamond Wafers for Future Device Applications 2021 , 583-631		